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IS 8594 (1977): Ball, Medicine [PCD 22: Sports Goods]

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Indian Standard

SPECIFICATION FOR BALL, MEDICINE

Sports Goods Sectional Committee, CPDC 4; Footballs, Volleyballs, Basketballs and Water Polo Balls Subcommittee, CPDC 4:1 [Ref: Doc: CPDC 4 (515)]

1. Scope — Dimensions and other requirements for medicine ball, used for physical training.

2. Material

2.1 *Outer Cover/Case* — Shoulder portion (minimum thickness 2 mm) of tight textured cow-hide leather, free from flay cuts and grain defects, vegetable tanned, semi-chrome tanned or chrome tanned, natural or dyed in any colour as agreed to between the purchaser and the manufacturer. However, at the end of tanning operation and before drying, suitable fungicides shall be incorporated into the leather and these shall be effective and non-toxic. Further the tanned leather shall be substantially fat-liquored and grain finished smooth. The panels of leather used for construction shall be such as will stretch uniformally, so as to avoid the ball losing shape in usage.

2.2 *Backing*

a) Cotton dosuti [*see* IS : 179-1965 Specification for dosuti (*revised*)].

b) Unbleached linen, made from pure long lone flax, complying with the following particulars:

i) Weight per square metre = 246·5 g

ii) Threads per dcm (approx) = 220 (Warp), 190 (Weft)

2.3 *Thread for Stitching*

a) Lightly waxed flax thread, having minimum breaking strength of 28 kgf on 50 cm gauge length.

b) 60 tex × 3 (or 10 s/3) cotton thread, having a single thread minimum breaking load of 4·10 kgf on 50 cm gauge length (*see* IS : 1720-1969 Specification for cotton sewing thread, bleached or dyed).

2.4 *Pack*

a) New linear jute padding

b) Long fibre Indian kapok (*see* IS : 3040-1965 Specification for Indian kapok for stuffing purposes)

} Soft, smooth, clean, dry, reasonably free from extraneous matter and silky in appearance

c) Linen padding, and

d) Compressed rubber pieces.

3. Dimensions and Weight — Shall be as follows:

Weight ± 5 %	*Circumference*
kg	cm
1·81	76·2
2·72	91·2
3·17	87·6
3·63	101·6
4·54	106·7

Adopted 28 October 1977 © January 1978, ISI Price Rs 5·00

INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

4. Manufacture — The ball shall consist of a leather outer case with the leather assembled flesh side outwards or grain side outwards, as agreed to between the purchaser and the manufacturer. The inside shall be tightly packed with linen, jute or kapok padding or any other suitable material approved by the purchaser. (In case of Defence supplies, prior to padding the material shall be bound with dosuti and sewing cotton thread into a spherical shape). The case shall comprise eight panels and two caps, which shall be strongly sewn in conjunction with the panels and the linen backing if the leather is backed, using a lightly waxed flax thread or cotton thread if so required by the purchaser. The stitching shall be spaced 25 to 28 stitches per decimetre. (In case of Defence supplies, the case shall comprise two identical panels, suitably blocked and laced together by means of leather laces, 4·8 mm in width and 2 mm in substance, with edges tappered throughout. The lacing holes shall be punched 12 mm apart and 6 mm from the edge of each panel).

5. Workmanship and Finish — The balls shall be spherical in shape and have a neat finish.

6. Marking — Each ball shall be clearly and indelibly marked with the manufacturer's name, initials or registered trade-mark and its weight.

6.1 *ISI Certification Marking* — Details available with the Indian Standards Institution.

7. Packing — As required by the purchaser.

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